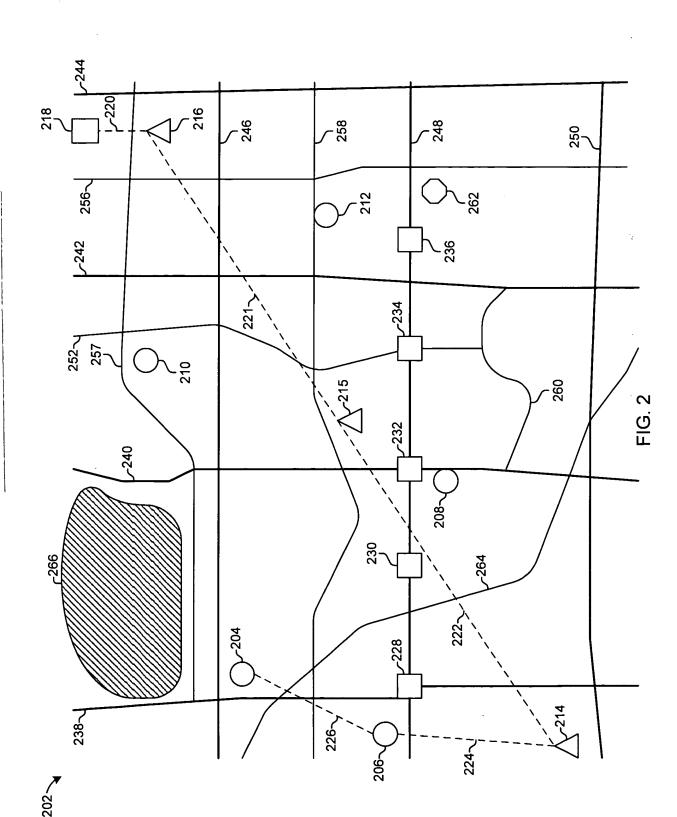


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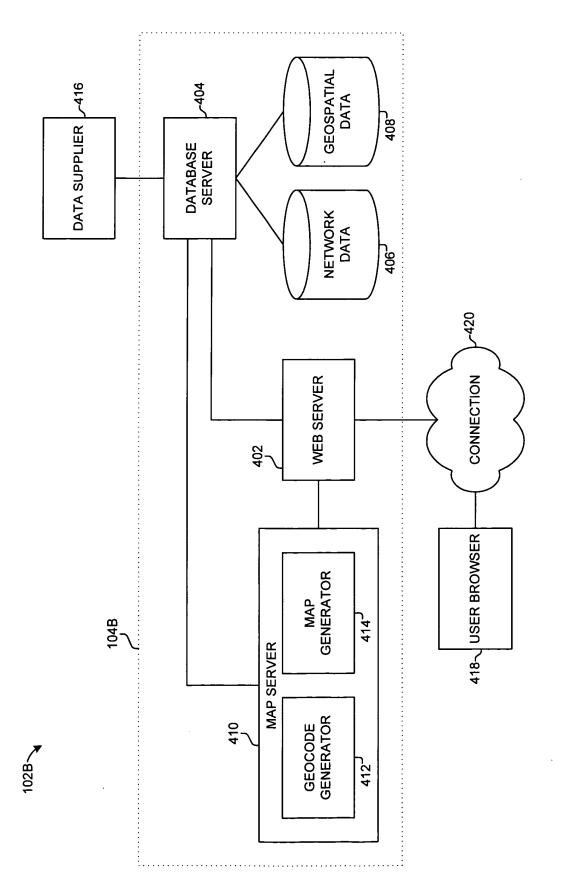
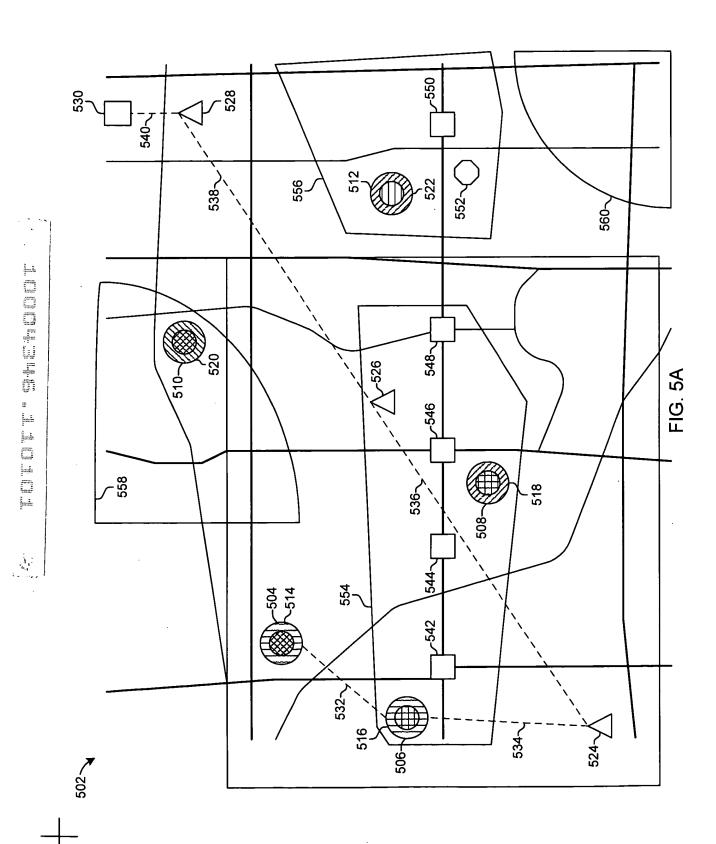
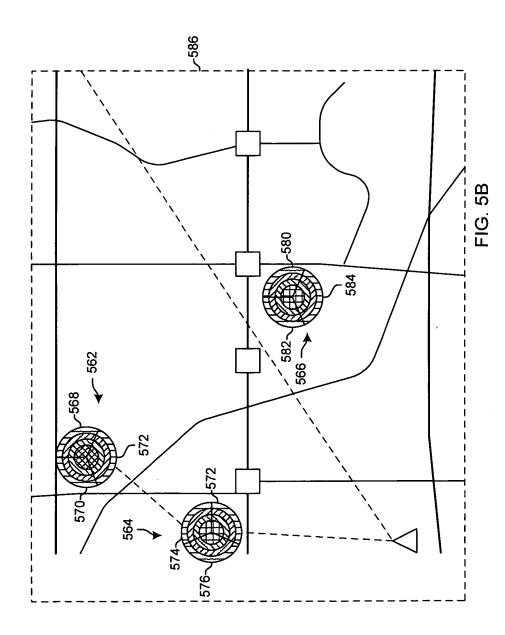


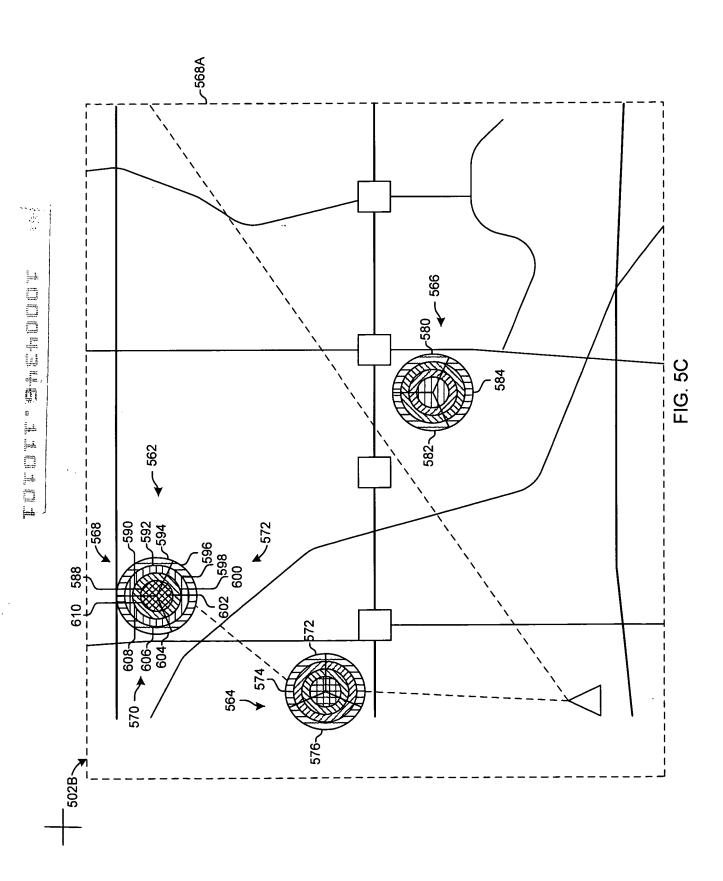
FIG. 4





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APPROVED	O.G. FIG.							
ВУ	CLASS	SUBCLASS						
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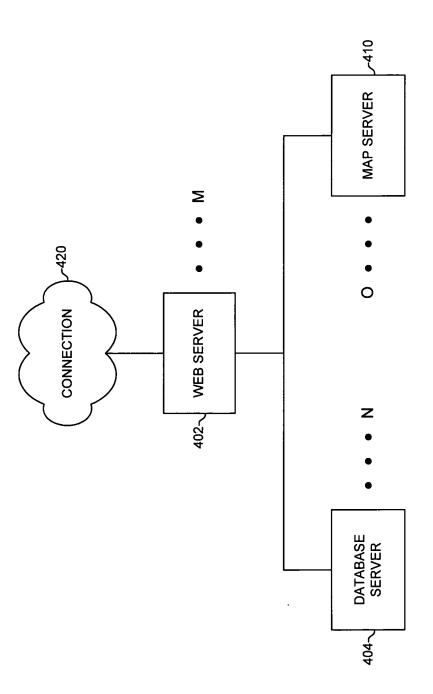
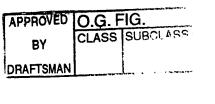


FIG. 6



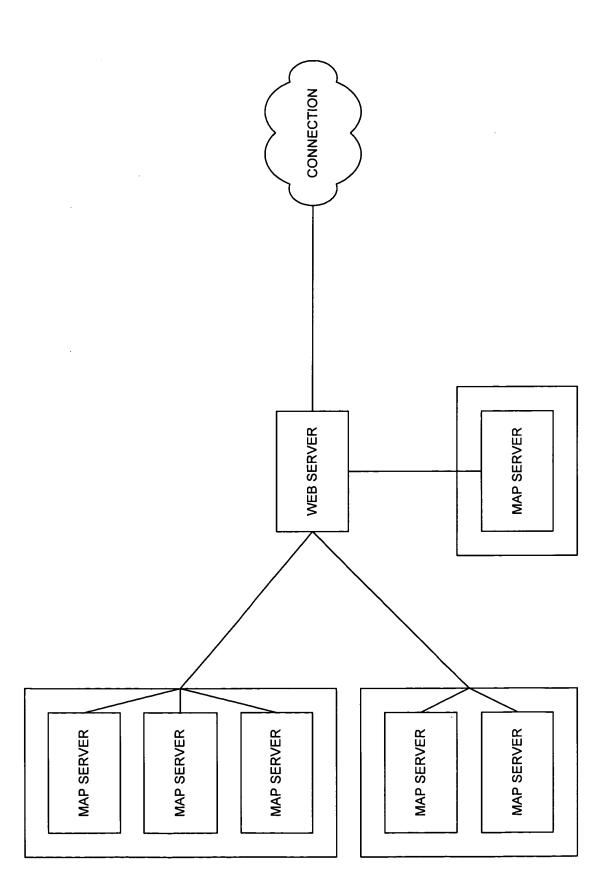


FIG. 7A

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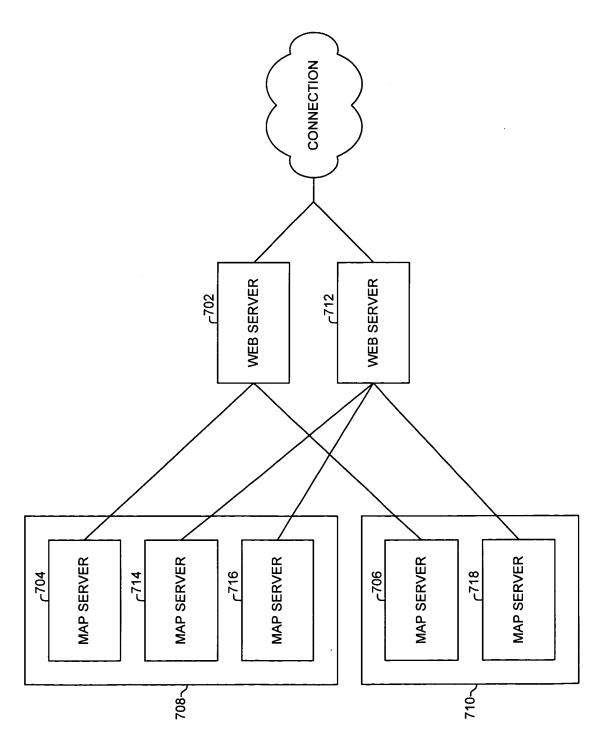


FIG. 7B

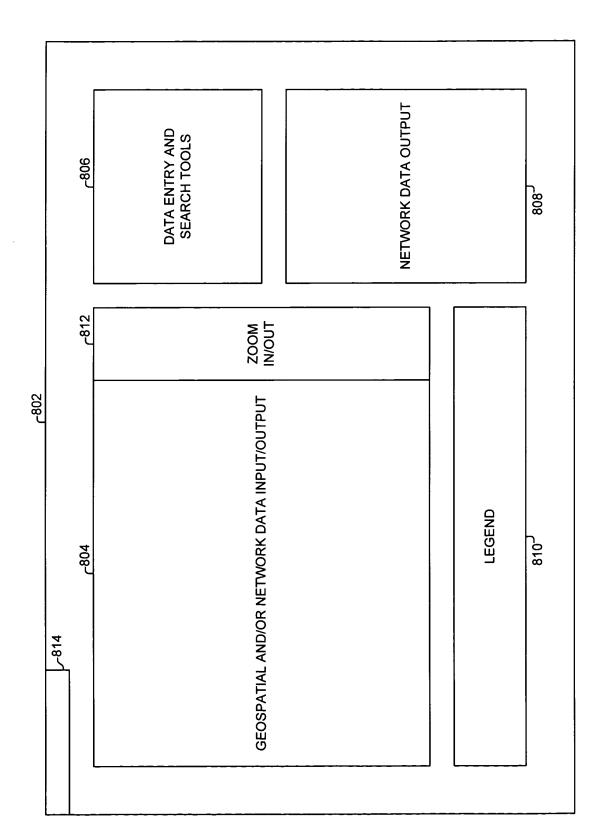


FIG. 8

Site Info | Tickets | Ticket Info | Network | 914 Address, & Intersection Search B S T.O.O. Address Trickets MTA Sites 1912 No information has been entered. Display Map 808 906 OUTPU Address: ZIP Code: City State: Geographical Network Management FIG. 9 904 пчәм 🚚 902 Wap Information and Messages 910

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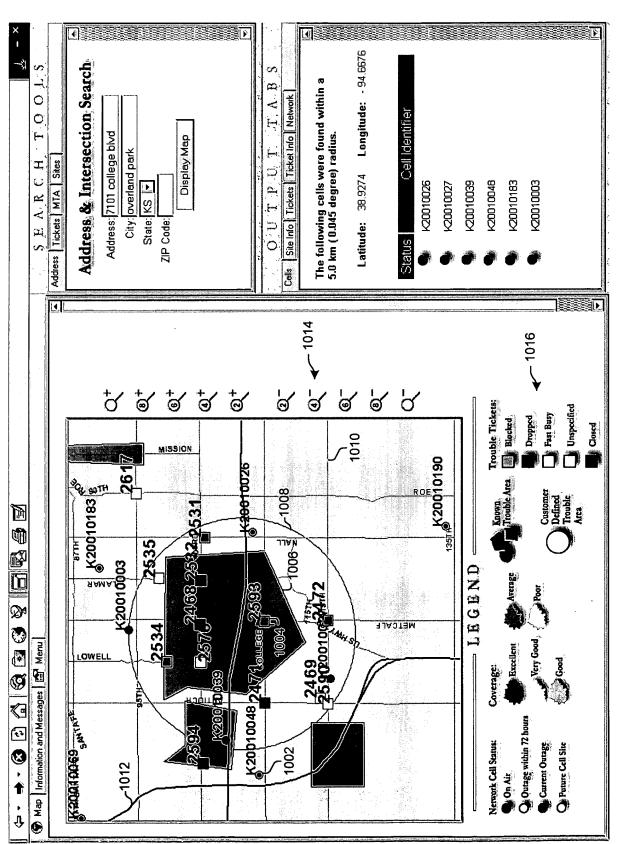


FIG. 10

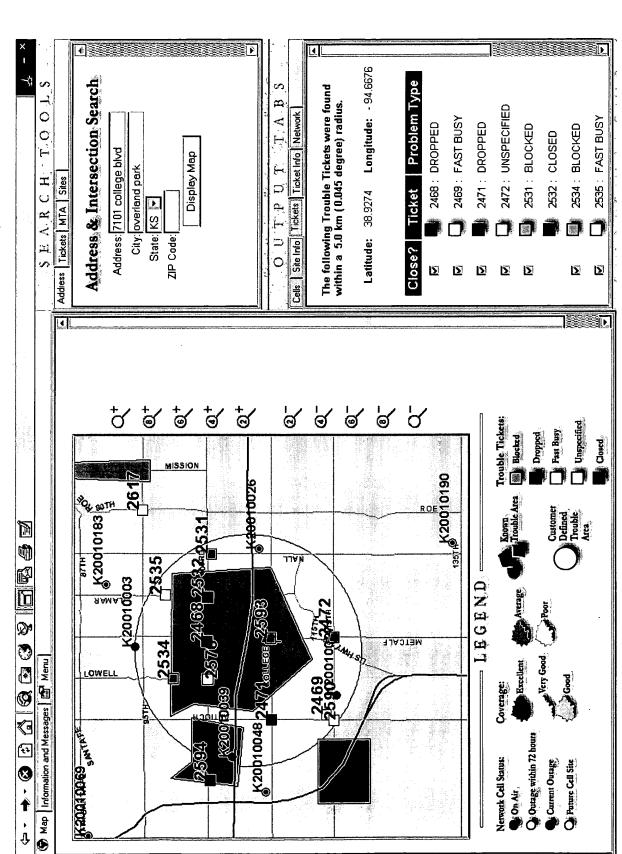


FIG. 11

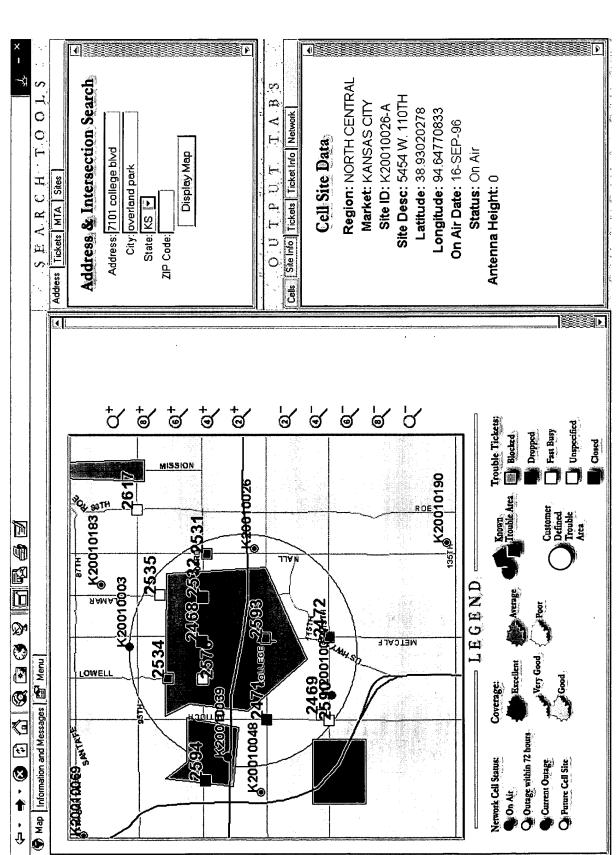


FIG. 12

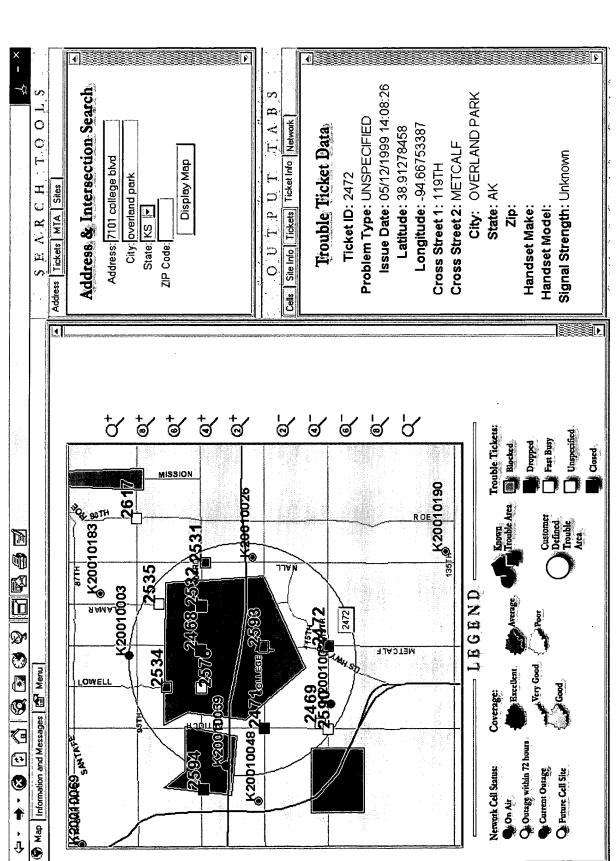


FIG. 13



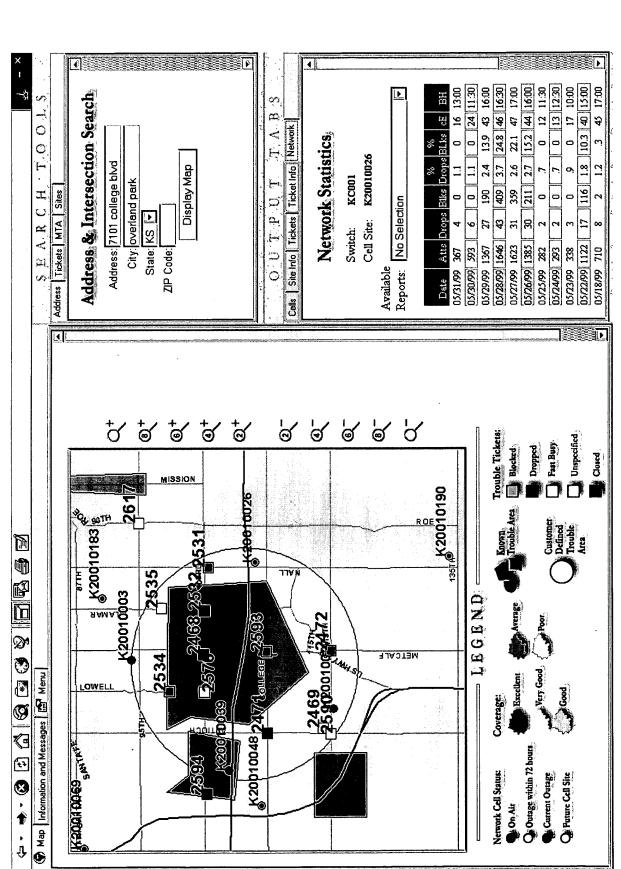


FIG. 14

FIG. 15

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Latitude: 38.9274 Longitude: - 94.6676 ss & Intersection Search S C'C The following cells were found within a 5.0 km (0.045 degree) radius. TAB 0 Site Info | Tickets | Ticket Info | Network O ss: 7101 college blvd Display Map ity:|overland park KARCH kets MTA Sites TPO ate: KS K20010048 K20010183 K20010003 K20010026 K20010027 K20010039 10 ode: Trouble Tickets: Unspecified Fast Busy Dropped Blocked Closed Customer Defined Trouble Area † <u>්</u>ල් ବ୍ 9 9 6 - LEGEND K20010190 -Kaoo touze Very Good Excellent Coverage: * Display Legend Outage within 72 hours 2469 (13)4/1/2 25 90200100 34/1/2 K20110048 247 (Journal 7593 Network Cell Status: Current Outage Puture Cell Site METCALF On Air STA (Map Information and Messages K20010069 WITH Û

FIG. 16

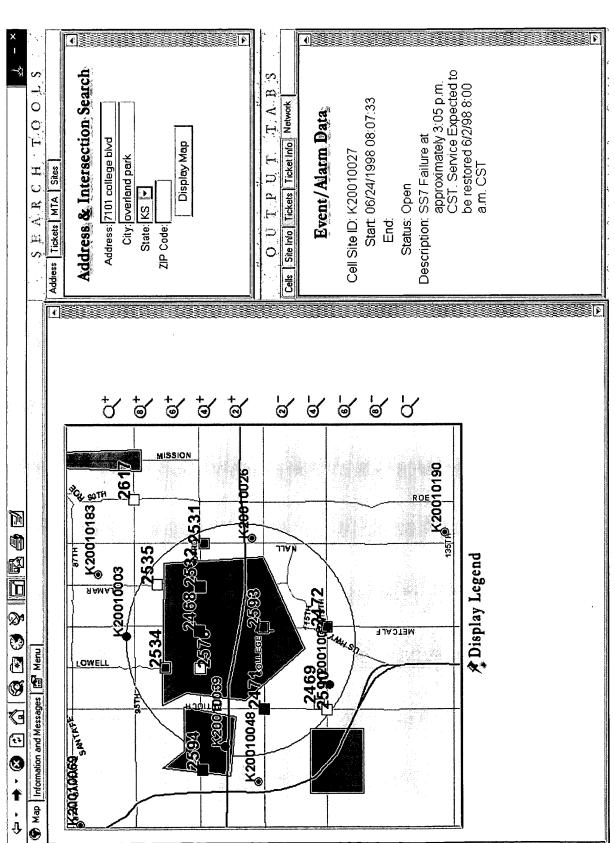


FIG. 17

e P

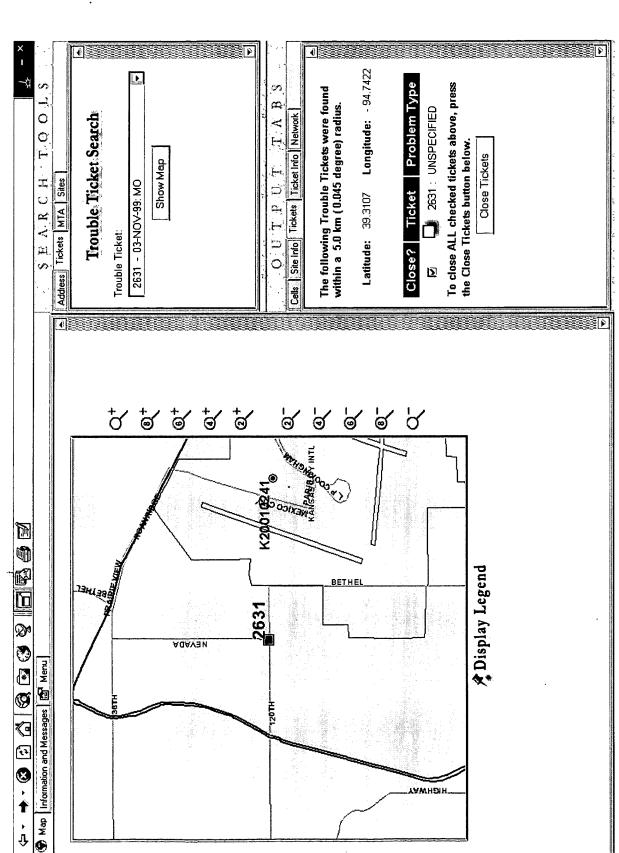


FIG. 18

FIG. 19

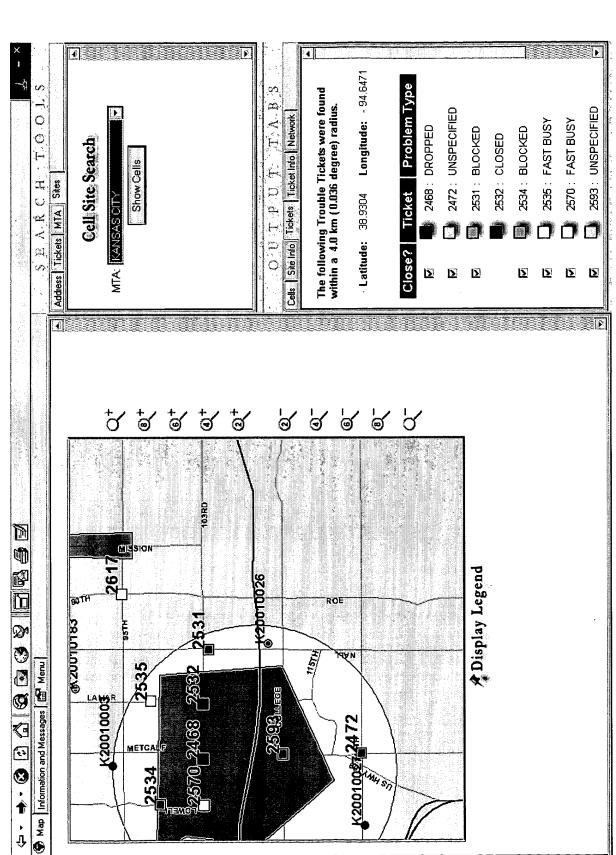


FIG. 20

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FIG. 21

FIG. 22A

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FIG. 22B

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A statement of the stat

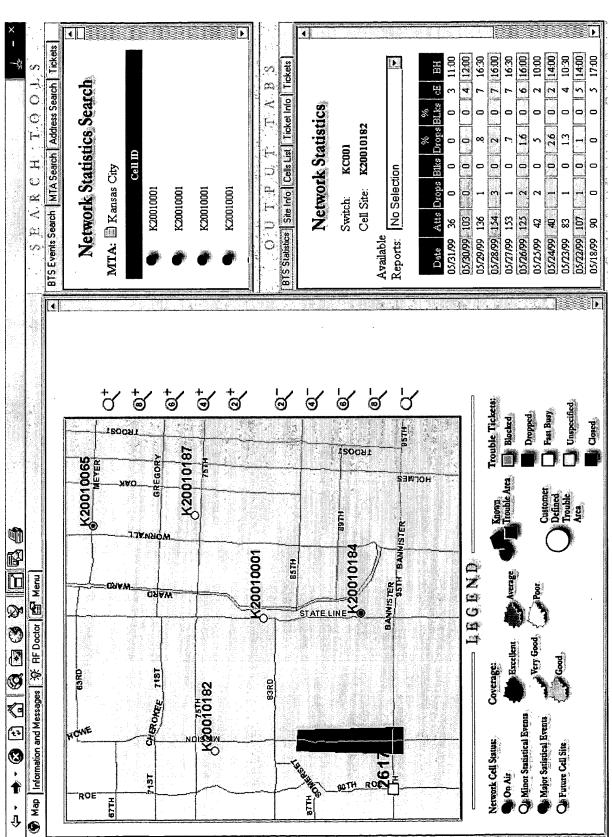


FIG. 23

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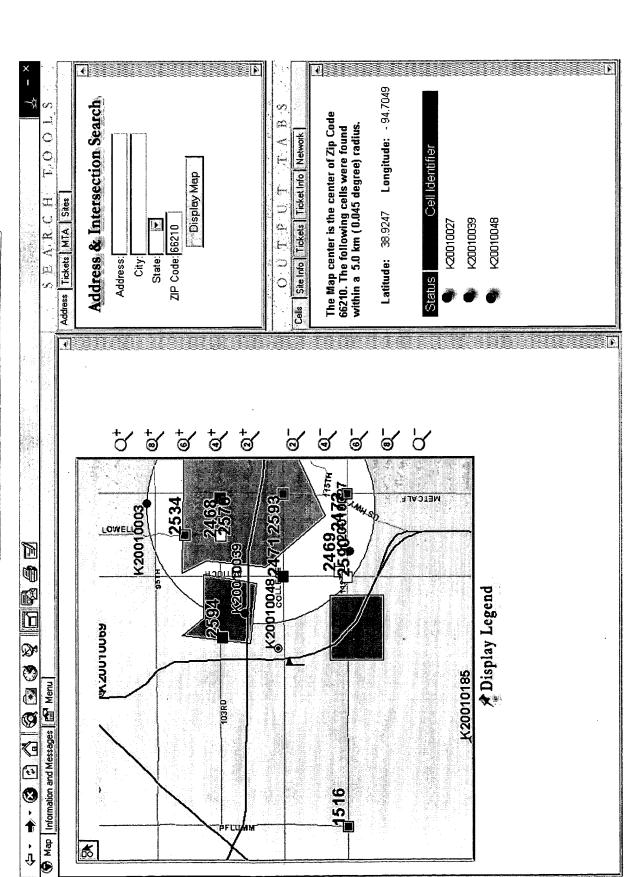


FIG. 24

Address & Intersection Search

Display Map

ZIP Code: 66210

State: City: Address:

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SEARCH

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(🗭 Map Information and Messages 🖼 Menu

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W.ZUUT UUS A

Address | Tickets | MTA | Sites

1516

Longitude: - 94.7049

Latitude: 38.9247

K20010048 K20010039

* Display Legend

K20010185

K20010027

The Map center is the center of Zip Code 66210. The following cells were found within a 5.0 km (0.045 degree) radius.

TABS

OUTTO

Site Info | Tickets | Ticket Info | Network

FIG. 25

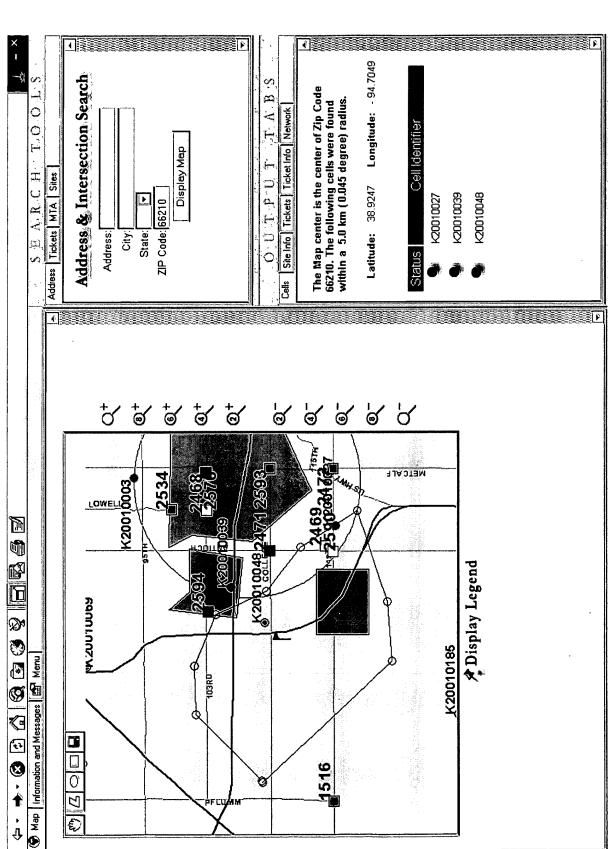


FIG. 26

	BTS Events Search MIA Search Address Search Tickets	Address & Intersection Search	Address:		ZIP Code: 66210	Display Map	I	OUTPUTIABS	BTS Statistics Site Info Cells List Ticket Info Tickets	The following cells were found within a 5.0 km (0.045 degree) radius.	Latitude: 38.9260 Longitude: - 94.6946	Status Cell Identifier (##	K20010027	K20010039	V K20010048	K20010069	K20010183	K20010215	K20010003	
>· © B \$ Ø B ©	(** Map) Information and Messages ** RF Doctor 圖 Menu	Define Trouble Area	Trouble Area ID: 684	Trouble Area Title: (Required)		of Relsolution: Proposed Resolution:			Commit Trouble Area	To complete the definition of this trouble area, please fill in the form above and press the commit										

FIG. 2

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Geocode Results	Ticket ID: 38.963539 Latitude: 38.963539 Longitude: -94.78846 Coverage Attributes: Unknown Trouble Area Attributes: No Other tickets at this location?: No Neighboring Cell Count: 1 Neighboring Ticket Count: 5 Search Radius: 5	Community
SpatialObjects Trouble Ticket Entry Utility	Ticket ID: 2692 Cross Street 1: 87th and Antioch Cross Street 2: lenexa City: KS F Zip: Zip: Ticket Type: FAST BUSY F Customer Email: me@yourcomp.com	Geocode Ticket

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SEARCHITOOLS	Address Tickets MTA Sites	Address & Intersection Search	Address:	State:	ZIP Code: 66210	Display Map		Δ	C-UT-PUT TABS	☑ 1516: BLOCKED	□ 1 2468: DROPPED	☐ 🔁 2469: FAST BUSY	☐ 2471: DROPPED	[C 2472: UNSPECIFIED	E 2534: BLOCKED	[] U 2570: FAST BUSY	□ 📮 2590 : FAST BUSY	[] Q 2593: UNSPECIFIED	□ 2594: DROPPED	To close ALL checked tickets above, press	the Close Tickets button below.	Close Tickets
💮 Map Information and Messages 🖼 Menu	Close Trouble Tickets.	To complete the closer of the trouble tickets listed below, confirm the date of closer and specify a	reason for the tickets being closed. If desired, check the box labled "Notify Customer" and the customer will be notified via their phone of their problem's resolution.	Resolution or Reason:			Commit Ticket Close		t ID Issue Date Problem Type Street 1 Street 2 City 15-APR-99 BLOCKED 119TH PFLUMM OVERLAND PARK	2534 26-MAY-99 BLOCKED 9900 LOWELL OVERLAND PARK KS												

BY CLASS SUBCLASS
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× - A	SEARCH TOOLS	Address Tickets MTA Sites	Address: 7101 college blvd	City: overland park State: KS	ZIP Code:		Tickets Ticket Info Network	No information has been entered.			2
· · · · · · · · · · · · · · · · · · ·		1									2
后帝隆日 《多里》 P 日 · +		- Constitution of the Cons		Wielnin German	Lebelling Options Men Size	Denity Control	Logow.				
Ŷ.	Map Info										

FIG. 30

SEARCH: TOOLS	BIS Events Search MIA Search Address Search Tickets		ZIP Code:	Display Map		OUTPUTABS	(WITS Statistics Site Info Cells List Ticket Info Tickets		No information has been entered.	
令・・・・ (名) (名) (名) (名) (名) (日) (本) (日) (日) (日) (日) (日) (日) (日) (日) (日) (日	Select the layers and layer options you wish to enable or disable for your user profile.	Enable Disable Eayer	Customer Defined Trouble Area		Future Cell Sites Future Cell Sites	☑ Marketing Defined Coverage	回 面 Network BTS (Cell/Sector) Statistics	Fi Parks and Recreational Areas	☑ Trouble Tickets	Return to Menu

FIG. 31

Address, & Intersection Search, STOOL TABS Site Info Tickets Ticket Info Network No information has been entered. Address: 7101 college blvd Display Map City: overland park SEARCH Addless Tickets MTA Sites O.O.T. D.O State: KS 🔽 ZIP Code: you time if accessing SpatialObjects over low presented. The "Drill Down" setting will save This defines the search and display distance will govern the options available to you and This setting governs how the legend will be (in kilometers) used for all map generation, your role while using SpatialObjects. This the reaction of the tool to certain requests. Select the user classification that best fits when not executing a zoom operation. 123 speed network connections. Return to Menu Customer Service 🔽 Value On Page 💽 5 (km) Menu Information and Messages User Classification: Legend Option: Search/Display Distance:

FIG. 32

× 1 ×	SEARCHTOLS		Address: 7101 college blvd City: overland park State: KS T ZIP Code: Disnlay Man	T T T T T T B S	Tickets Ticket Info Network Tickets Ticket Info Network Ticket Info Ticket Info Network Ticket Info Networ		P P
	Map Information and Messages 📻 Menu	Hot Spot Options,	C Allow Hot Spot Definition: O Disallow Hot Spot Definition: Cancel				

FIG. 33

FIG. 34

Geographical Network Management

Version 1.1 Login: [Password:

Login

FIG. 35

	SEARCH TOOLS	BTS Events Search MIA Search Address Search Tickets	Address & Intersection Search	Address:	City: State: ▼	ZIP Code:	Display Map				No information has been entered.			P
0 6 9 0		Select the Network Statistic display options you wish to enable or disable for your user			Description	Alert if over this number of attempts.	Alert if Drops are greater than or equal to this value.	Alert if Blocks are greater than or equal to this value.	Alert if %Dropss are greater than or equal to this percentage value.	Alert if %Blocks are greater than or equal to this percentage value.	Alert if Channel Erlangs are greater than or equal to this value.	Select AND to cause all selected conditions to be ANDed together when analyzing the Network statistics layer. Select OR to cause the selected conditions to be ORed.	Menu	·
←· ◆· Ø C Q Ø 🕸 🔇 🦻 🗗 🖫	d Messages 🖺 🗃 Menu 📗	work Statistic display options you v		Network Statistics	Display Warning Critical Attributes Level	Attempts: 500 950	100	Blocks: 10 250	% Drops: 2 % 4.5 %	% Blocks: 5 % 7 %	Channel Erlangs: 65 17	Logical AND © Operator: OR C	Retwin to Menu	
⊗ - ← - ⇔	Map Information and Messages	Select the Net	profile.	***************************************	Enable Disable		☐ Drops:	D Bio	I%	% D	□ Ch	, Q		

:e:

FIG. 37

1

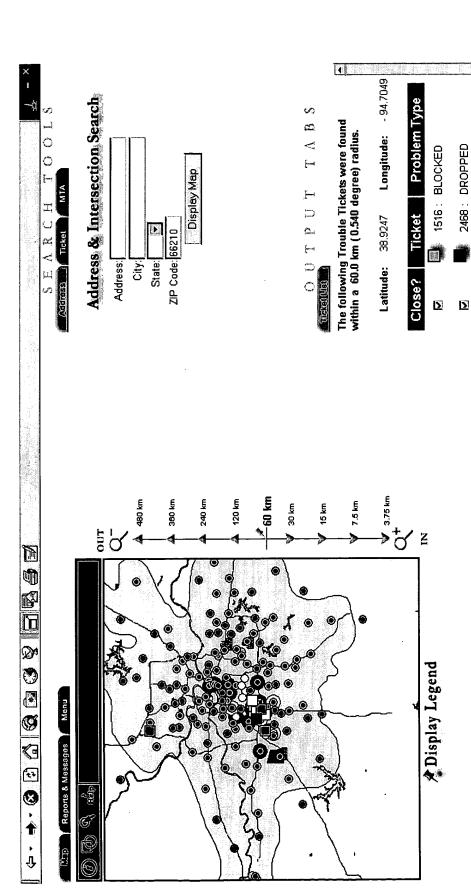


FIG. 38

2472: UNSPECIFIED

2

2531: BLOCKED

Σ

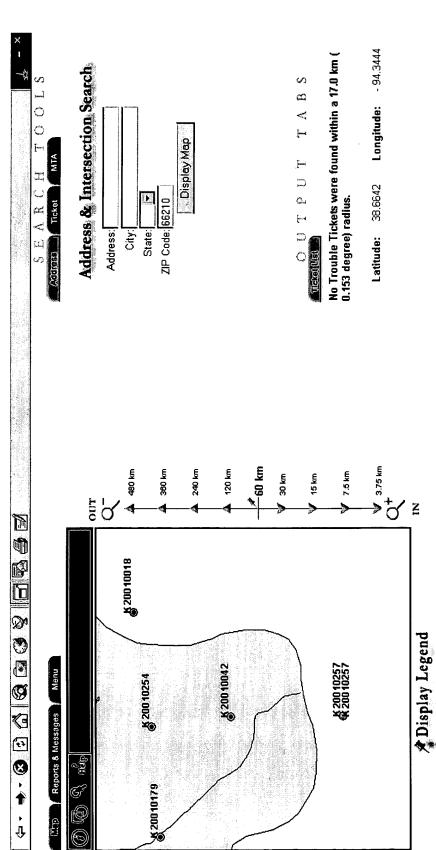
CLOSED

2532 :

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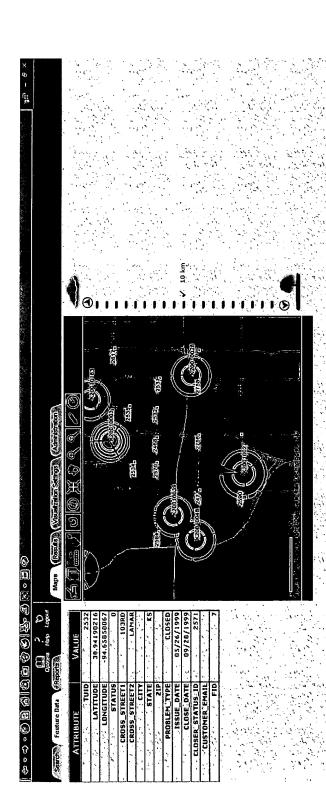
2469: FAST BUSY 2471: DROPPED

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FIG. 42

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FIG. 43

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9.59 % Call Handoff % February Blocks Block		% Handoff Minutes of Blocks Use Erlangs		0.00% 220,378.46 21.86	0.00% 215,110.96 21.34	154,757.83	0.00% 236,398.50 23.45	156 040.84	150,681.25	0.00% 219,322.47 21.76	177,365.40		0.30% 590.016.01 58.53	395,864.01	353,917.86	0.02% 385.679.19 38.26	460,301.43	0.00% 716,144.62 71.05		281,340,72	23721213	0.01% 395,864.01 39.27	488,503.90	0.09% 363,917.86 35.11	716,144,62	0.00% 460,301.43 45.66	0.00% 637,286.41 63.22	_	752,002.36		590,016.01	353,917.86	0.09% 306,583.65 30.42
CELLTOP-10SUMMARY Call Market Marsas City Call Market Marsas City Market Marsas City Call Market Marsas City Alternol Call Success Blocks Blocks Blocks Blocks Blocks Blocks Blocks Blocks Blocks Call Market Marsas City 2 7/12 7/72 100.00% 0 0.00% 0 0.00% 7 679 7 679 100.00% 0 0.00% 0 0.00% 7 679 7 679 100.00% 0 0.00% 0 0.00% 7 679 7 679 100.00% 0 0.00% 0 0.00% 7 679 7 679 100.00% 0 0.00% 0 0.00% 7 679 7 679 100.00% 0 0.00% 0 0.00% 8 6 770 6 720 100.00% 0 0.00% 0 0.00% 9 719 9 770 100.00% 0 0.00% 0 0.00% 9 719 7 621 100.00% 0 0.00% 0 0.00% 9 720 7 629 100.00% 0 0.00% 0 0.00% 9 720 7 629 100.00% 0 0.00% 0 0.00% 9 720 7 629 100.00% 0 0.00% 0 0.00% 9 720 7 629 100.00% 0 0.00% 0 0.00% 9 720 7 629 100.00% 0 0.00% 0 0.00% 9 720 7 629 100.00% 0 0.00% 0 0.00% 9 720 7 629 100.00% 0 0.00% 0 0.00% 9 720 7 629 100.00% 0 0.00% 0 0.00% 9 720 6 720 0 92.3% 1000 1.23% 1.27% 9 720 7 629 99.23% 1.009 1.23% 1.00% 9 720 9 765% 1.000 1.23% 1.000 9 720 9 765% 1.000 1.23% 1.000 9 720 9 765% 1.000 1.23% 1.000 9 720 9 765% 1.000 1.000 1.000 9 720 9 765% 1.000 1.000 1.000 9 720 9 765% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.000 1.000 9 720 9 720% 1.000 1.0				0	0	-	5 6	0	0	-	0		1.278	æ	227		Ш	0	-	41		39	0	757	-	15	-	-	0		1,278	757	140
CELL TOP 10 SUMMARY Harth Kanasa City				0.00%	0.00%	%00.0	0.00%	0.00%	0.00%	800	%00:0		1.16%	2.86%	1.57%	1.40%	1.31%	1.32%	1.27%	1.15%	i a	2.86%	2.14%	1.57%	1.32%	1.31%	1.28%	1.26%	1.25%	i	1.16%	1.57%	0.32%]
Call Attempts S 719 719 719 719 719 719 719 719 719 719	۲ ۲ 201 23:59:		at		0	=	5 0	0	0	0	0		720	1,855	88.	948	662	1,073	1053	426		ı	- 980	88	1,073	99	92	624	11	ļ	770	88	27
Call Attempts S 719 719 719 719 719 719 719 719 719 719	SUMMA: sas City o: 07/07/20	% Blocks	ess Perce	0 0.00%							%00:0 0	De See	9 3.09%	4 2.92%			7 1.34%				ks Percen	4 2.92%								ocks Perci	8 3.09%	2 2.61%	7 1.11%
Call Attempts S 719 719 719 719 719 719 719 719 719 719	OP 10 (rket: Kans 0:00:00 T	- 1	Call Succ	8								Total Dia	2.04	Н							Call Blor	1.89	7		-	11		1	П	andoff Bl	П	-	1
Call Attempts S 719 719 719 719 719 719 719 719 719 719	CELL 1 Ma 701/2001 (% Call Success	Top 10	ш		1						10 to 10				98.29	Ш			Ш	Top 10			L	ı	L		L	Ш	27000		- 1	
	From: 07	Call	11						Ш		Ш						П		81,473			Ш			L	49,585			H		Ш	L	
Cell K-20010039 (Kansascity1:BTS1134) K-20010020 (Kansascity1:BTS1134) K-20010020 (Kansascity1:BTS1123) K-20010020 (Kansascity1:BTS1123) K-20010020 (Kansascity1:BTS1123) K-2001006 (Kansascity1:BTS1123) K-2001007 (Kansascity1:BTS3) K-2001007 (Kansascity1:BTS1)	entre de la companya del companya de la companya de la companya del companya de la companya del companya de la companya de la companya de la companya del companya de la companya della companya de la companya de la companya della companya della companya della companya della companya della companya della co	Call Attempts		9,719	7,866	7,772	7 659	7,641	7 228	6,328	5.964		66,232	64,778	24 595	46,029	50 409	91,429	82,874	36,906		64,778	63,566	46 029	81,429	50,409	80,177	49.649	89,329		66,232	24,595	17,673
		Cell		K20010039 (KansasCity1:BTS1134)	KC13XC325 (KansasCity1:BTS51)	K20010012 (KansasCity1:BTS1122)	KC13XC328 (KansasCity1.B1S11.25)	K20010065 (KansasCity1:BTS65)	K20010096 (KansasCity1:BTS1115)	KZ001000B (KansasCity1:BTS8)	K20010215 (KansasCity1:BTS231)		K20010179 (KansasCity1:BTS1306)	K20010053 (KansasCity1:BTS53)	K20010003 (KansasCity1:BTS3)	K20010004 (Kansascity1:BTS4)	C0010005 (KansasCity1:BTS5)	C0010030 (KansasCity1:BTS1132)	K20010092 (Kansascity1:BTS1110)	K20010234 (KansasCity1:BTS305)		K20010053 (KansasCity1:BTS53)	K20010217 (KansasCity1:BTS301)	Kauntuus (Kansasciryt:BTS3) Konntinna (Kansasciryt:BTS4)	K20010030 (KansasCity1:BTS1132)	K20010005 (KansasCity1:BTS5)	C0010024 (KansasCity1:BTS1127)	K20010192 (KansasCity1:BTS1408)	K20010021 (KansasCity1:BTS1126)		K20010179 (KansasCity1:BTS1306)	K20010003 (KansasCity1:BTS3)	KZU01UU69 (KansasCity1:B151U69)

200	39.27	48.46	35.11	38.26	71.05	45.66	63.22	75.95	37.47	74.60	Same in	58.53	35.11	30.42	38.26	39.27	27.91	48.78
	395 864.01	488,503.90	353,917.86	385,679,19	716,144.62	460,301.43	637,286.41	765,550,59	377,725.65	752,002.36		590,016.01	353,917.86	306,583.65	385,679.19	395,864.01	281,340.72	491,744.72
	0.01%	0.00%	0.09%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	H	0.30%	0.09%	0.09%	0.02%	0.01%	0.01%	0.01%
	æ	-	757	25	-	15	0	0	0	0		1,278	257	140	27	33	41	92
i di	2.86%	2.14%	1.57%	1.40%	1.32%	1.31%	1.28%	1.27%	1.26%	1.25%		1.16%	1.57%	0.32%	1.40%	2.86%	1.15%	0.92%
	1,855	1,380	386	646	1,073	299	1,026	1,053	624	1,113	amt	770	382	25	646	1,856	426	291
Percen	B94 2.92%	2.14%	2.61%	1.52%	1.32%	1.34%	1.28%	1.27%	1.26%	1.25%	ks Perci	2,048 3.09%	642 2.61%	1.11%	1.52%	894 2.92%	1.27%	316 0.99%
II Block	1,894	1,360	642	200	1,073	229	1,026	1,053	624	1,113	soff Bloc	2,048	642	197	700	1,894	467	316
Top 10 Call Blocks Percent	96.75%	97.55%	98.23%	98.29%	98.24%	98.37%	98.29%	98.31%	98.42%	98.34%	Top 10 Handoff Blocks Percent	98.46%	98.23%	99.63%	98.29%	96.75%	88.57%	98.78%
	62,675	62,007	24,160	45,241	29,999	49,585	78,803	81,473	48,863	87,847		65,209	24,160	17,608	45,241	62,675	36,380	31,377
12	64,778	63,566	24,595	46,029	91,429	50,409	721,08	82,874	49,649	69 329	de di	66,232	24,595	17,673	46,029	64,778	36,906	31,764
	K20010053 (KansasCity1:BTS53)	K20010217 (KansasCity1:BTS301)	K20010003 (KansasCity1:BTS3)	K20010004 (KansasCity1:BTS4)	(Z0010030 (KansasCity1:BTS1132)	K20010005 (KansasCity1:BTS5)	K20010024 (KansasCity1:BTS1127)	K20010092 (KansasCity1:BTS1110)	(K20010192 (KansasCity1:BTS1409)	(X20010021 (KansasCity1:BTS1126)		K20010179 (KansasCity1:BTS1306)	K20010003 (KansasCity1:BTS3)	K20010069 (KansasCity1:BTS1069)	K20010004 (KansasCity1:BTS4)	K20010053 (KansasCity1:BTS53)	K20010234 (KansasCity1:BTS305)	K20010129 (KansasCity1:BTS1210)
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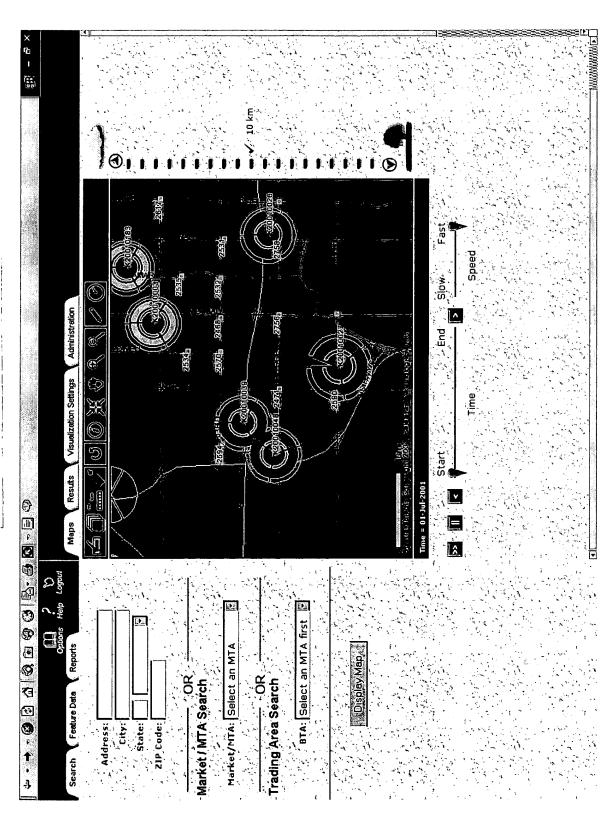


FIG. 45A



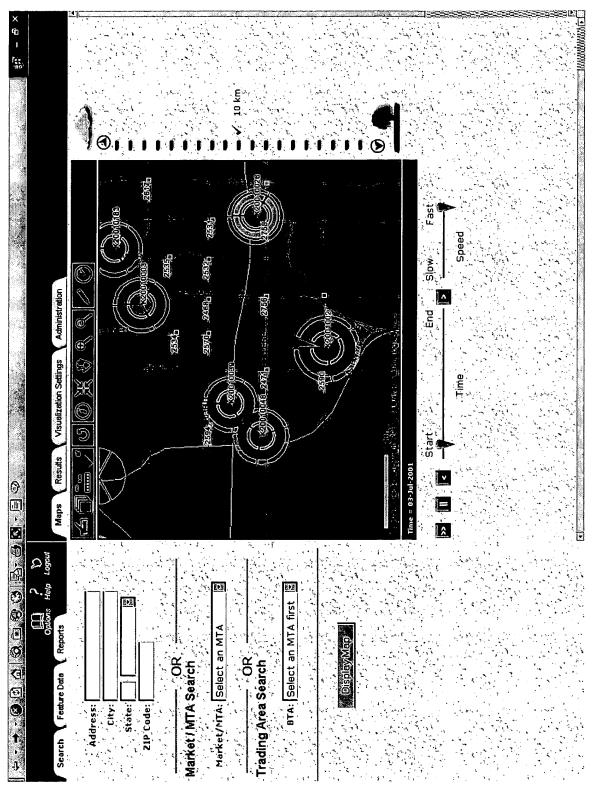


FIG. 45B